Report on Final Project CSCI 4210

Visual Studio Engine

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Introduction

1. A visual novel is an interactive game, featuring mostly static graphics, sometimes using animated-style art or occasionally live-action stills (and sometimes video footage). As the name might suggest, they resemble mixed-media novels

2. Multiple storylines and many endings; the gameplay mechanic in these cases typically consists of **intermittent multiple-choice decision points**, player selects a direction in which to take the game

3. Development Process

   - Framework-Android 6.0
   - Tools Eclipse IDE with inbuilt Android SDK, Android Studio and git version control
   - Communication Meetings, Slack and emails for communication
   - Implementation

4. Features

   - Android Application
   - Displaying text, images and playing audio files
   - Being Interactive with end user (Taking inputs from user)
   - Mute and Unmute the audio
   - Provide flexibility to the Visual Novel Creator

Use case

Visual Novel Engine -

This engine is used to create Visual Novels which can be used by the mid-term users to create the novels and
the final user reads the visual novel.

Three actors – **Admin, Creator, Player**

Success scenarios –

        Creater creating a visual novel using the visual novel engine provided without any issues.

Usecase 1 – Reading or Following the User Guide
Description – User should read the User Guide/Help document to understand how to Create the visual novel or Read the Novel.
Users Involved - Creator
                 Player

Usecase 2 – Creating the Visual Novel with only text
Description – User should pass proper inputs such as (text document, images for background and audio files if any neccesary) to the Visual Novel
                Engine. Engine will interpret the input provided and generates the output apk file.
Users Involved - Creator

Usecase 3 – Creating the Visual Novel with only text and background images
Description – User should pass proper inputs such as (text document, images for background) to the Visual Novel
                Engine. Engine will interpret the input provided and generates the output apk file.
Users Involved - Creator

Usecase 4 – Creating the Visual Novel which includes text, background images and audio files
Description – User should pass proper inputs such as (text document, images for background and audio files if any neccesary) to the Visual Novel
                Engine. Engine will interpret the input provided and generates the output apk file.
Users Involved - Creator

Usecase 5 – Reading the Visual Novel
Description – End user should install the visual novel file in his mobile and read or interact with the visual succesfully without any
                interruptions.
Users Involved - Player

Usecase 6 – Creating the standalone visual novel engine
Description – Developer creates a engine which takes input from the creator and creates the visual novel.
Users Involved - Admin

Usecase 7 - Admin supports if there are any issues in the engine
Description - Admin supports the Novel engine if any issue raises when the novel is created by the developer.
Users Involved - Admin

Usecase 8 - Admin should create an engine which should support with only text script created
Description - Admin should create an customized engine which will take the input of script which consists only text.
Users Involved - Admin

Usecase 9 - Admin should create an engine which should support with images script
Description - Admin should create an customized engine which will take the input of script which consists only image files.
Users Involved - Admin

Usecase 10 - Admin should create an engine which should support with audios script
Description - Admin should create an customized engine which will take the input of script which consists only audio files.
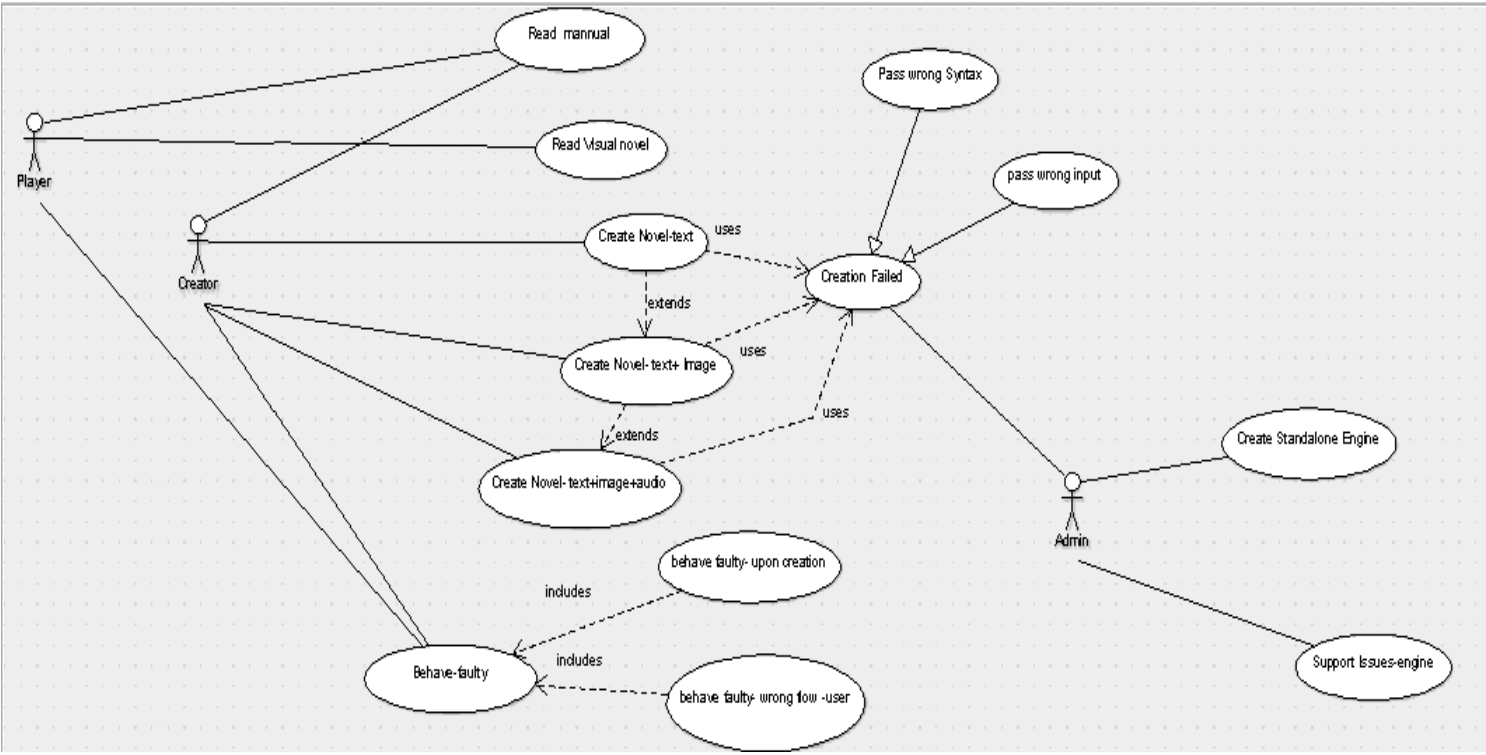Users Involved - Admin

Alternate scenarios

Usecase 11 - Incorrect input to the Novel engine
Description - Creator passes incorrect input to the engine.
Users Involved - Creator & Admin

Usecase 12 - Wrong Syntax passed as an input
Description - Creator passes wrong syntax which is not supported by the visual novel engine.
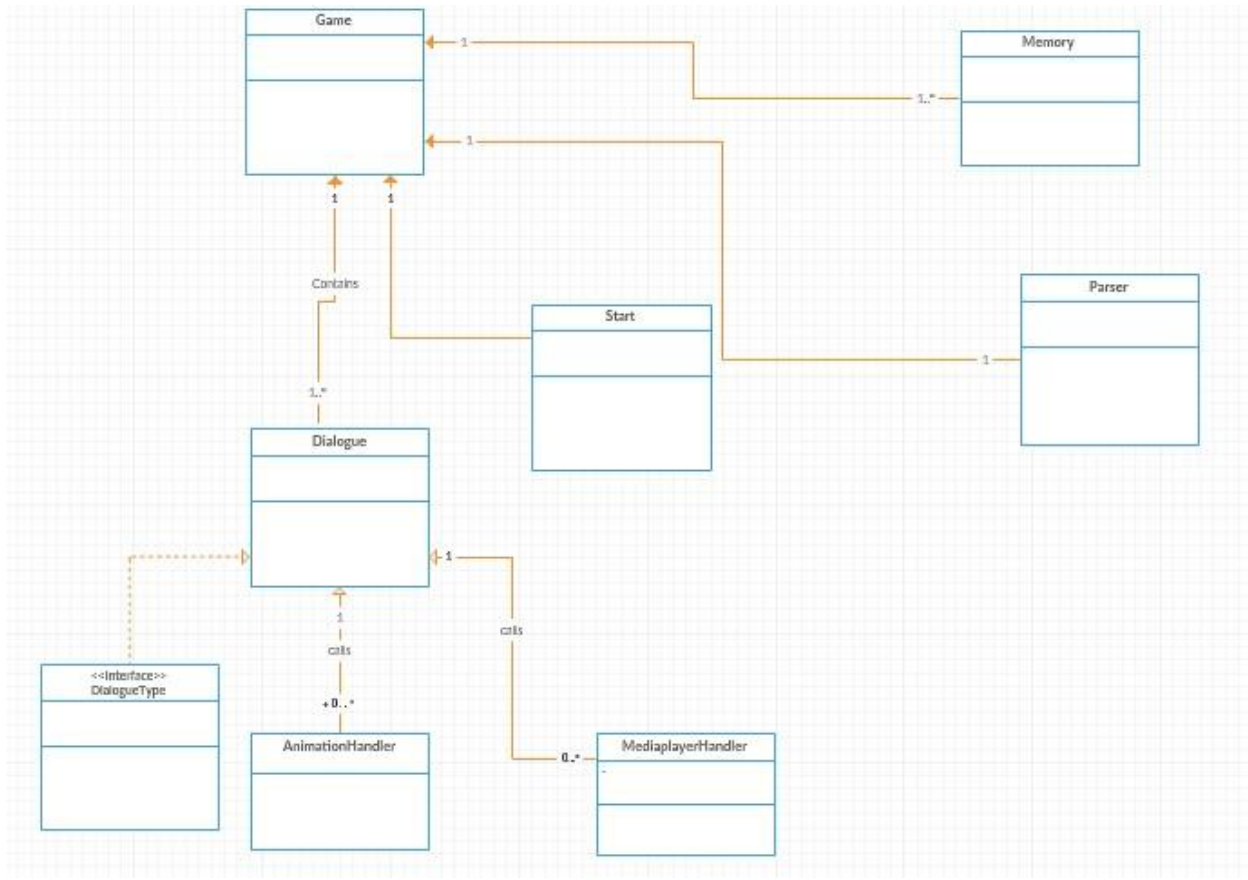Users Involved - Creator & Admin

Usecase 13 - Issue with the Visual Novel created
Description - Incorrect behaviour of the visual novel which is created by the User.
Users Involved - Creator

Usecase 14 - Issue with the Visual Novel created as wrong flow of novel
Description - Incorrect behaviour of the visual novel which is created by the User.
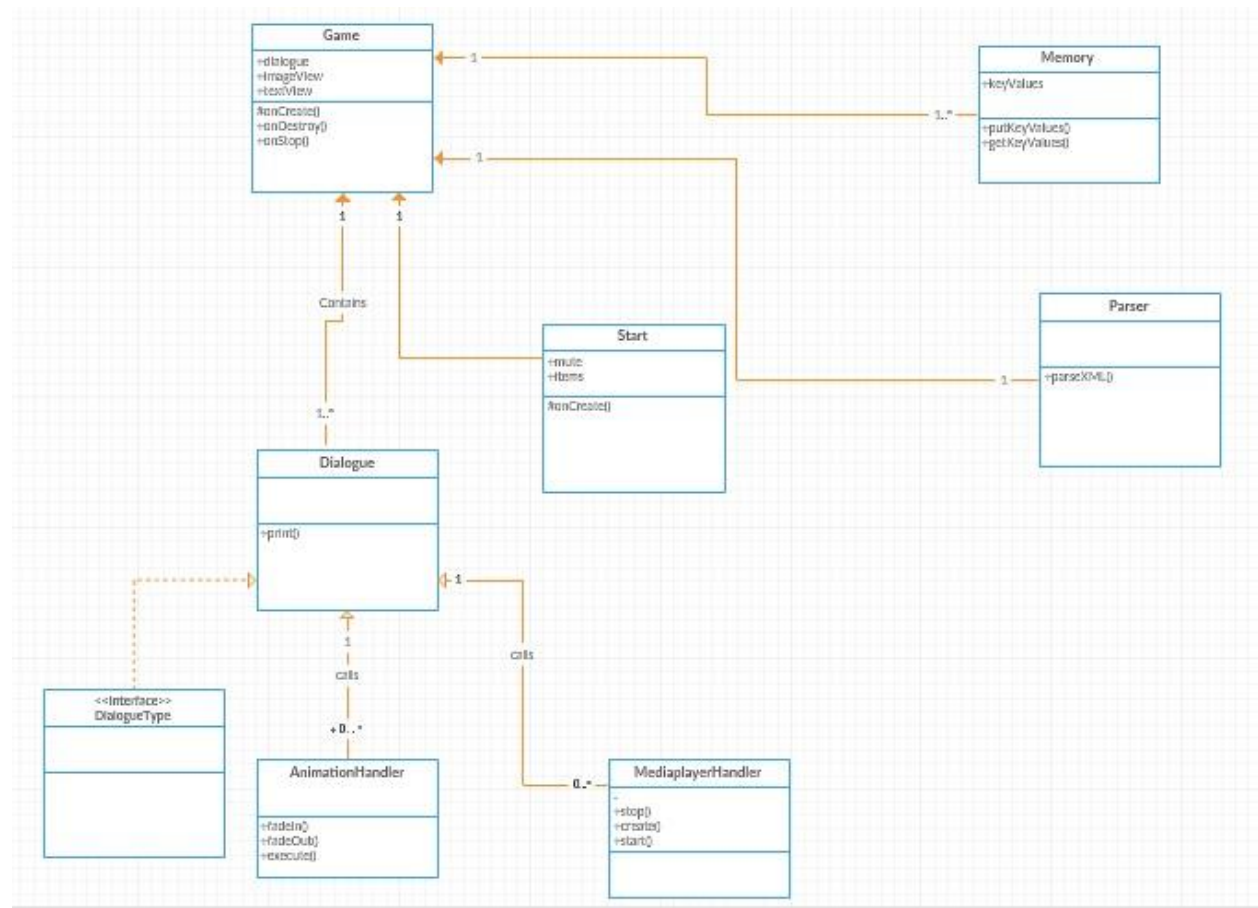Users Involved - Creator

Use Case Diagram

Domain Model

Design Model

System Sequence Diagram

Please excuse us for not so good quality of the image.